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DPO-4486-59

19 June 1959

MEMORANDUM FOR : Acting Chief, Development Projects Division
SUBJECT : Granger Countermeasures Repeater, Model 504

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1. On 24 June 1959, a meeting was held at [REDACTED] Naval Air Station to discuss the proposed flight test program of the production Granger Countermeasures Repeater. Present at the meeting were:

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[REDACTED]

CIRCULATE	INITIAL
X-REF	[REDACTED]
	PF
	TM
	JH
	EE
	TEB

2. The first production Granger Black Box is now complete. It is presently undergoing laboratory testing at Palo Alto and will be ready to deliver to Edwards Air Force Base for flight testing approximately 20 July 1959. This production article will have the additional feature of missile doppler deception as well as retaining the characteristics of the original system.

3. The proposed flight test program is as follows:

a. Test that the box functions properly at maximum altitude of carrier aircraft.

b. Test operation of system to perform equally as well as during the R & D phase. This test to be accomplished at [REDACTED] using same type radar system as before.

c. Repeat b with a. w. doppler system activated to test priority circuit of Granger box.

d. Repeat "tail chase" using doppler only.

e. Test of box simulating tactical mission to include zoom climbs of tactical aircraft using X-band tracking radars.

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(NOTE: It may be possible to combine a and c, and c and d, above. Item b cannot be combined with either a or c, since the doppler system can only be deactivated on the ground.)

4. There is one large obstacle to the test program at this time: All F-106's with reliable fire control systems have been transferred from Edwards Air Force Base due to completion of the test program. It will be necessary to attempt to borrow an F-106 from the Palmdale production line through [REDACTED] to lay on the request to AFSC. No particular problem is foreseen in accomplishing the necessary coordination. [REDACTED] will make the request of [REDACTED]

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5. RECOMMENDATIONS: It is recommended that DPD Operations Branch, in coordination with Communications Section, arrange for the necessary field technical representatives to be at [REDACTED] on 20 July 1959 for on-the-job training of installation, ground testing, and maintenance of the Granger system. It is doubtful that Granger is capable of sending technicians to the field due to lack of personnel. It should not be necessary for them to do so since the system, although complex, is relatively straightforward for an electronic specialist. This training can be better accomplished at Edwards than in the field, where both the high level of experience and the contractor will be available to assist in the program.

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[REDACTED]
Major, USAF
Development Branch, DPD

DPD(RDN/amsb
(Retyped DPD/ah)

APPROVAL: Recommendations in para. 5 approved.

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[REDACTED]
Colonel, USAF
Acting Chief, DPD-1/6/2

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See para. 5.

Understand the only cost will be travel and per diem of one trainee from Det B and one from Det C to be sent to Edwards to check out in the operation of the Granger box.

A step in the proper direction!

Q

FROM	
NAME AND ADDRESS A/Ch/DPD	PHONE NO.
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